2003 USSOCOM SOF CBRN CONFERENCE DECONTAMINATION UPDATE

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Outline

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- **Joint Platform Interior Decontamination**
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  - Requirements, Acquisition Objectives
  - Schedule
  - Summary / Questions

JSFDS Program Overview

- **Joint Service Family of Decontamination Systems**
  - Consists of four distinct, mutually supporting materiel acquisitions
    - **Joint Service Personnel Skin Decontamination System (JSPDS)**
    - **Joint Service Man-Portable Decontamination System (JSM-PDS)**
    - **Joint Service Transportable Decontamination System (JSTDS)**
    - **Joint Service Stationary Decontamination System (JSSDS)**
  - Each system delivers an expanded operational capability to the warfighter
  - The four systems provide the Services with decontamination products to upgrade their decontamination capabilities in all aspects of their mission profiles:
    - **Immediate**
    - **Operational**
    - **Thorough**

JSFDS Program Overview cont.

- **JSFDS Acquisition Approach**
  - Family of systems (JSPDS, JSM-PDS, JSTDS, JSSDS)
    - Allows trade-space
    - Focuses on system capabilities vs. design
    - Provides maximum flexibility to leverage Commercial off the Shelf (COTS) products
  - Employs an Integrated Team effort throughout
    - Requirements/Combat Developers (KPPs, Operational Concept Documents (CONOPS))
    - Materiel Developer (MATDEV)
    - Test and Evaluation Community
  - Evolutionary Acquisition Strategy using the Spiral Development Process
    - Focuses on operational capabilities
    - Applies lessons learned from recent fielding of decontamination systems

JSPDS Program Overview

- **Joint Service Personnel/Skin Decontamination System (JSPDS) Program Overview**
  - Operational Requirements Document (ORD) approval scheduled for January 04
  - Milestone B decision FY 04
  - DT II FY04-FY06
    - Safety, Packaging,Efficacy, Compatibility
  - Milestone C decision FY 07
  - Initial Operational Capability (IOC) achieved in FY 07
  - Full Operational Capability (FOC) achieved in FY 09/10

JSPDS Program Overview

- **System Description**
  - **Provide the warfighter with an increased capability over the current M291SDK**
  - **Be capable of performing skin decontamination operations.**
    - **Immediate**
    - **Operational**
    - **Thorough**
  - **Provide capability to decon select IPE and individual/crew serve weapons (under .50 cal)**

JSM-PDS Program Overview

- **Joint Service Man-Portable Decontamination System (JSM-PDS) Program Status**
  - ORD scheduled for approval Feb 04
  - Industry Day March 04
    - Draft RFP released
  - Milestone B Decision FY 04
  - Milestone C Decision FY 07
  - IOC achieved in FY 07
  - FOC achieved in FY 08/09

JSM-PDS Program Overview

- **System Description**
  - **Man portable/hand held decontamination system capable of supporting operational through thorough decontamination operations**
    - **Spot Decon**
    - **Shipboard**
    - **Facility Exterior**
  - **Replacement for M-11 and M13 DAP**

JSTDS Program Overview

- **Joint Service Transportable Decontamination System (JSTDS) Program Status**
  - ORD scheduled for approval Feb 04
  - Industry Day March 04
    - Draft RFP released
  - Milestone B Decision FY 04
  - Milestone C Decision FY 07
  - IOC achieved in FY 07
  - FOC achieved in FY 08/09

JSTDS Program Overview

- **System Description**
  - **Large Transportable**
    - **Provide the capability to perform operational and thorough decontamination of vehicles, facilities, terrain**
    - **Compatible with current decontaminants**
      - **Hot Soapy Water**
    - **Large area of coverage**
    - **Reduced logistics footprint**
    - **Compatible with current vehicle platforms**
      - **No new prime mover**
  - **Small Transportable**
    - **Provide the capability to perform operational decontamination (operator wash down)**
    - **Compatible with current decontaminants (hot soapy water)**
    - **Transportable by 4 personnel**
    - **Replacement for current M17 LDS**

JSSDS Program Overview

- **Joint Service Stationary Decontamination System (JSSDS) Program Status**
  - ORD scheduled for approval March 04
  - Milestone B Decision FY 06
  - Industry Day TBD
  - Milestone C Decision FY 12
  - IOC achieved in FY 12/13
  - FOC achieved in FY 14/15

JSSDS Program Overview

- **System Description**
  - **Provide a stationary decontamination capability for rear areas of operation in support of thorough decon**
    - **Air Craft**
    - **Vehicles & equipment**
      - **Commercial and tactical**
      - **Ground support equipment**
      - **Loading cranes**
  - **Capable of transport by C130**
  - **Require no more than 2, ISO containers**
  - **Capable of being re-deployed within 6 hours**
  - **Fully operational within 1 hour**

JSSED Overview

- **Joint Service Sensitive Equipment Decontamination**
  - **Family of system(s) that provide thorough decontamination capabilities for sensitive equipment.**
  - **Sensitive equipment is defined as high dollar value, mission critical, and low field density that cannot be decontaminated and reused through current decontamination procedures.**
  - **Types of systems: optics, communication-electronics, avionics, computer systems, Special Operations Forces- Unique sensitive equipment.**
  - **Technology is non-aqueous (solvent), closed loop system similar to that used by the precision cleaning industry.**

JSSED Program Overview cont.

- **JSSED Acquisition Approach**
  - Incremental Requirements Document
    - Allows trade-space
    - Focuses on system capabilities vs. design
    - Provides maximum flexibility to leverage Commercial off the Shelf (COTS) products
  - Employs an Integrated Team to incorporate USAF, USA, USN, USMC effort throughout program
    - Combat Developers
    - Materiel Developers
    - Test and Evaluation Community
    - DOT&E

JSSED Program Overview cont.

- **Program Status / Schedule**
  - Award Optimization Contracts for the development of the fluid system - June 03
  - Begin laboratory testing of candidate solvent for removal of CWA/BWA - Nov 03
  - ORD Increment I scheduled for approved - Feb 04
  - APB Increment I Approved - Feb 04
  - TEMP Increment I Approved - Sept 04
  - Critical Design Review – 4QFY04
  - Award System Integration Contract for system hardware - 1QFY05
  - Milestone C – 3QFY06
  - Production – 1QFY07
  - FUE – 3QFY07

JSSED Quantities/Funding

- **Quantities TBD**
- **$21M RDT&E FY04-FY06**
- **$25.8M PROC FY07-FY09**

JSSED Technology Barriers

- **Desire to neutralize agent jeopardizes sensitive material integrity/compatibility**
- **Decontamination to safe levels across the theater threat CWA/BWA challenge.**
- **Desire to “reuse/recycle” solvent in closed loop system while maintaining solvent integrity**

JPID Overview

- **Joint Platform Interior Decontamination program has 2 block approach to address requirements**
  - **Increment I - Open loop system for vehicle, aircraft, and ship interiors (stationary)**
  - **Increment II - Open loop system for vehicle, aircraft, and ship interiors (on the move)**
- **Increment I production expected in FY08, Increment II in FY09**

JPID Schedule

- **Milestone B** **2QFY05**
- **Critical design review** **TBD**
- **IOT&E** **TBD**
- **MS C** **TBD**
- **Production** **TBD**
- **FUE** **TBD**

JPID Technology Barriers

- **Compatibility across large range of materials, vehicles, and missions**

Summary/Questions?